M. A. R. 57 (Rule 116)
Measurement Book

No. D

Serial No. .....

Name of work: Improvements to roads and drains at between 5th main and 6th main cross roads at manjunath Nagar in Ward No. 14.

Name of Contractor of nature of Agency.....

Date of commencement of work.....

From ..... To .....

225020

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Estimated cost : Rs	50.0 Lakh					
	Head of AC :	PCode 1878					
	Job Code No :	014-18-00051					
	Adm-Sanction No :	EE/DD/AS/200/17-18 - Dt 21.10.17					
	Tech Sanction No :	CE/DZ/TS/240/17-18 - Dt 31.10.17					
	Agency :	KR/DL.					
	BTU No :	1st and Final					
	BTU Recording date :	01.10.18.					

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	4	5	7	8
	Tender Item No. 1						
	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2.0mt and average lift upto 0.50m excavated figure levelled and sides neatly dressed the disposal earth to be levelled as directed by engineer at site.						
	Quantity vide page No. 22					50 80	this mb
	Qty					932.16	m^3
	@ 86.92/m^3						Rs 81023=00
	Tender Item No. 2						
	Construction of an embankment with approved material gravel with all lifts and leads transporting to site spreading grading to req'd slope and compacting to need omc complete as per directions of engineer at site.						

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

225021

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Skdagur	Quantity	vide	page No.	22	50 80	this mb
				Qty		645.97	m^3
				@ 320.12/m^3			Rs 206788.00
	Tender Item No 3						
	providing and laying PCC of mix 1:4:8 with OPC @ 180 kgs with 40mm and down size graded metal C.A @ 0.85 m^3 and F.A @ 0.57 m^3 machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinths including cost of all materials						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	as directed by an engineer of RCC						
	Quantity vide page No 225081 of this MB						
	Qty					56.52 m3	
	@ 5159.02/m3					Rs 29,588.00	
Tender Item No 4							
	providing and removing centering shuttering shuffing propping etc and removal of formwork for roof slab such as walls at any thickness including attached pilasters etc with all materials etc as directed by Engineer at site						
		2 Nos	50.0	-	1.0	250.0 m2	
		2 Nos	50.0	-	1.0	250.0 m2	

M. A. R. 57 (Rule 116) No. D

Measurement Book

225022

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2 Nos	50.0	-	1.0	250.0 m2	
		2 Nos	50.0	-	1.0	250.0 m2	
		2 Nos	50.0	-	1.0	250.0 m2	
		2 Nos	50.0	-	1.0	250.0 m2	
		2 Nos	14.0	-	1.0	56.0 m2	
	Shadangu			Total	Qty	1256.0 m3	
		@	310.58 /m3			Rs	390088

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Tender Item No 5						
	Design mix M20 with OPC cement @ 320 kg with 20 mm down size stone chips c.a @ 0.69 m³ f.a @ 0.46 m³ with superplasticizer @ 3 lts conforming to IS 9103 & 1999 vide govt Notification with all materials complete etc as directed by engineer at site						
	For bottom portion						
		1	50.0	0.90	0.15	6.75 m³	
		1	50.0	0.90	0.15	6.75 m	
		1	50.0	0.90	0.15	6.75 m	
		1	50.0	0.90	0.15	6.75 m	
		1	50.0	0.90	0.15	6.75 m	

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

225023

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For side walls	1	50.0	0.90	0.15	6.75 m³	
		1	14.0	0.90	0.15	1.89 m	
		2	50.0	0.15	0.80	12.0 m³	
		2	50.0	0.15	0.80	12.0 m	
		2	50.0	0.15	0.80	12.0 m	
		2	50.0	0.15	0.80	12.0 m	
		2	50.0	0.15	0.80	12.0 m	
		2	50.0	0.15	0.80	12.0 m	

Executive Engineer

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	14.0	0.15	0.80	3.36 cu m	
			Total Qty			117.35 cu m	Rs 820159=00
			@ 6965.26				
Tender Item No 6							
	Supply and letting and placing TMT bars Fe 500 reinforcements as substitute complete as per drawing and technical specifications as directed by engineer at site						
	Qty code page No 225081 of MB No						
	Qty					9.34 Tonnes	
	@ 66482.14/-						Rs 620943=00

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

225024

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Tender Item No. 7						
	Supply and fixing pre cast RCC. Slab 10 cm thick including cost of all materials as per design and drawing materials cost etc and machine hire to get pcc even surface etc complete						
	Top covering slab						
		1	50.0	0.90	-	45.0 nos	
		1	50.0	0.90	-	45.0 nos	
		1	50.0	0.90	-	45.0 nos	

Sub Engineer

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Defect Liability Period From

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	50.0	0.90		45.0 mt	
		1	50.0	0.90		45.0 mt	
		1	50.0	0.90		45.0 mt	
		1	14.0	0.90		12.60 mt	
			total qty			282.60 mt	
			@ 1698.00			Rs 479855=00	

Tender Item No. 8

Grade I metal Construction of GSB providing coarse graded crushed stone aggregate of granite metal spreading in uniform thickness with motor grader on prepared surface mixing by a mix in place

Defect Liability

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work ..... From ..... To 225025
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	method with relocation of one and compacting with vibratory roller to achieve the desired density as directed by engineer at site. At 1st Cross Manjunath Nagar	1	50.0	5.50	0.10	27.50 m³	
		1	50.0	5.50	0.10	27.50 m³	
		1	50.0	5.50	0.10	27.50 m³	
		1	50.0	5.50	0.10	27.50 m³	
		1	50.0	5.50	0.10	27.50 m³	
		1	11.0	5.50	0.10	6.05 m³	
			@ 1518.98/m³			total qty = 143.55 m³	Rs 218050=00

Shadanjan
Assistant Engineer

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Tender Item No. 9	Providing laying spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water one in mechanical mix plant carriage & mixed material of upper to site laying in uniform layers with paver on sub-base course all prepared surface and compacting with vibratory roller to achieve the desired density at top and other cases of magnitude	1	50.0	5.50	0.23	63.25 m3	
		1	50.0	5.50	0.23	63.25 m3	
		1	50.0	5.50	0.23	63.25 m3	
		1	11.0	5.50	0.23	13.91 m3	
				Total qty		320.16 m3	
			@ 1768.08/m3			Rs	583749=00
Tender Item No. 10							

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. 225026

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Defect Liability Period From

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	providing and laying prime coat with SS bitumin emulsion as proposed surface to granular base such as WBM 40mm including cleaning of road surface and spraying at rate of 0.60kg/m² using mechanical means complete as per specification as directed by Engineer at site						
	Majunath Nagar 1st Cross and other	1	50.0	5.50	—	275.0m²	
		1	50.0	5.50	—	275.0m²	
		1	50.0	5.50	—	275.0m²	
		1	50.0	5.50	—	275.0m²	
		1	50.0	5.50	—	275.0m²	
		1	11.0	5.50	—	60.50m²	
					total qty	1435.50m² @ Rs	3956.20

e 27/5

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

225027

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Tender Item No. 11 providing and apply tack coat as proposed surface black topped surface at 5kg/100m² heating bitumen in boiler fitted with spray including cost of all material labour etc complete as per direction of Engineer at site.						
	Majunath Nagar 1st and other cross roads	Qty vide page No 225082 of this MB					
	Shekar					1435.50m²	
				@	11.66/m²	Rs	16738.20

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	4	5	6	7	8
	Tender Item No. 12 providing and laying BM on prepared surface with crushed coarse aggregate as per design mix formula for base binding course including loading & aggregate with F.E loader hot mixing of stone aggregates and bitumin in hot mix plant 40T capacity transporting mixed material in tipper to paver and laying mixed material with paver finisher to the level and grade rolling by power roller to achieve the desired density 50/75mm compacted thickness with 3.3% of bitumin but excluding the cost of prime coat and tack coat with load and lift of all cost of materials as directed by engineer at site.						

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

225028

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	1st Cross road with Nagar and cross road.	1	50.0	5.50	0.05	13.75m³	
		1	50.0	5.50	0.05	13.75-k	
		1	50.0	5.50	0.05	13.75-k	
		1	50.0	5.50	0.05	13.75-k	
		1	50.0	5.50	0.05	13.75-k	
		1	11.0	5.50	0.05	3.02-k	
	Shedangar		Total Qty			71.77m³	
			@ 71.77/m³ 5129.34/m³				Rs 368133

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	4	5	6	7	8
	Tender Item No. 13						
	providing and laying BC with hot mix plant using crushed aggregate & special grading premixed with bituminous binder and filler transporting the hot mix to work site laying with paver finisher to the specified grade, level and alignment rolling with smooth finisher to the specified grade with wheeled roller and tandem rollers to achieve the desired compaction as directed by Engineer at site						
	Maynath Nagar	1	50.0	5.50	0.03	8.25 m3	
		1	50.0	5.50	0.03	8.25 "	
		1	50.0	5.50	0.03	8.25 "	

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

225023

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
		1	50.0	5.50	0.03	8.25 m3	
		1	50.0	5.50	0.03	8.25 "	
		1	11.0	5.50	0.03	1.81 "	
				Total qty		43.064 3	
				@ 7083/98			Rs 305036=00
	Tender Item No. 14						
	Removal debris to the final places of disposal with all lead and lift as directed by Engineer at site.						
		1	75.0	5.50	0.30	123.75 m3	
		1	80.0	6.0	0.25	120.0 "	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	50.0	4.0	0.35	70.0 m3	
		1	102.0	4.0	0.30	122.40	
		1	55.0	3.50	0.40	77.0	
		1	80.0	4.0	0.40	128.0	
		1	70.0	3.50	0.35	85.75	
		1	85.0	2.50	0.50	106.25	
		1	90.0	2.0	0.35	63.0	
		1	80.0	3.50	0.25	70.0 m3	
						949.75 m3	
	Deducted 1% SB Qty					932.16 m3	
	@ 85.00/m3					Rs 79238.00	

Defect Liability

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

Name of work ..... From ..... To 225030

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Total amount Rs					4501550=00	
	By adding GST and KRDL Cess					49517=00	
	Total Rs					4996721=00	

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

7/10/18

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